

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/537,704  
Source: PG  
Date Processed by STIC: 2/15/06

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 02/15/2006

PATENT APPLICATION: US/10/537,704

TIME: 10:13:23

Input Set : A:\16095.seq list.txt

Output Set: N:\CRF4\02152006\J537704.raw

3 <110> APPLICANT: XENOME LTD  
 5 <120> TITLE OF INVENTION: NOVEL CHI-CONOTOXIN PEPTIDES (-I)  
 7 <130> FILE REFERENCE: 12373570/JGC  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/537,704  
 C--> 9 <141> CURRENT FILING DATE: 2005-06-02  
 9 <150> PRIOR APPLICATION NUMBER: 10/537,704  
 10 <151> PRIOR FILING DATE: 2005-06-02  
 12 <160> NUMBER OF SEQ ID NOS: 12  
 14 <170> SOFTWARE: PatentIn version 3.1  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 13  
 18 <212> TYPE: PRT  
 19 <213> ORGANISM: Conus marmoreus  
 21 <220> FEATURE:  
 22 <221> NAME/KEY: MISC\_FEATURE  
 23 <222> LOCATION: (12)..(12)  
 24 <223> OTHER INFORMATION: X is 4-hydroxyproline  
 27 <220> FEATURE:  
 28 <221> NAME/KEY: DISULFID  
 29 <222> LOCATION: (4)..(13)  
 30 <223> OTHER INFORMATION:  
 33 <220> FEATURE:  
 34 <221> NAME/KEY: DISULFID  
 35 <222> LOCATION: (5)..(10)  
 36 <223> OTHER INFORMATION:  
 W--> 39 <400> 1  
 W--> 41 Asn Gly Val Cys Cys Gly Tyr Lys Leu Cys His Xaa Cys  
 42 1 5 10  
 45 <210> SEQ ID NO: 2  
 46 <211> LENGTH: 13  
 47 <212> TYPE: PRT  
 48 <213> ORGANISM: Conus marmoreus  
 50 <220> FEATURE:  
 51 <221> NAME/KEY: MISC\_FEATURE  
 52 <222> LOCATION: (12)..(12)  
 53 <223> OTHER INFORMATION: X is 4-hydroxyproline  
 56 <220> FEATURE:  
 57 <221> NAME/KEY: DISULFID  
 58 <222> LOCATION: (4)..(13)  
 59 <223> OTHER INFORMATION:  
 62 <220> FEATURE:  
 63 <221> NAME/KEY: DISULFID  
 64 <222> LOCATION: (5)..(10)

## RAW SEQUENCE LISTING

DATE: 02/15/2006

PATENT APPLICATION: US/10/537,704

TIME: 10:13:23

Input Set : A:\16095.seq list.txt

Output Set: N:\CRF4\02152006\J537704.raw

65 &lt;223&gt; OTHER INFORMATION:

W--&gt; 68 &lt;400&gt; 2

W--&gt; 70 Val Gly Val Cys Cys Gly Tyr Lys Leu Cys His Xaa Cys

71 1 5 10

74 &lt;210&gt; SEQ ID NO: 3

75 &lt;211&gt; LENGTH: 14

76 &lt;212&gt; TYPE: PRT

77 &lt;213&gt; ORGANISM: Artificial Sequence

79 &lt;220&gt; FEATURE:

80 &lt;223&gt; OTHER INFORMATION: synthetic

82 &lt;220&gt; FEATURE:

83 &lt;221&gt; NAME/KEY: MISC\_FEATURE

84 &lt;222&gt; LOCATION: (1)..(1)

85 &lt;223&gt; OTHER INFORMATION: X is a pGLU or DpGlu residue

88 &lt;220&gt; FEATURE:

89 &lt;221&gt; NAME/KEY: MISC\_FEATURE

90 &lt;222&gt; LOCATION: (2)..(2)

91 &lt;223&gt; OTHER INFORMATION: X is Asn or a deletion

94 &lt;220&gt; FEATURE:

95 &lt;221&gt; NAME/KEY: DISULFID

96 &lt;222&gt; LOCATION: (5)..(14)

97 &lt;223&gt; OTHER INFORMATION:

100 &lt;220&gt; FEATURE:

101 &lt;221&gt; NAME/KEY: DISULFID

102 &lt;222&gt; LOCATION: (6)..(11)

103 &lt;223&gt; OTHER INFORMATION:

W--&gt; 106 &lt;400&gt; 3

W--&gt; 108 Xaa Xaa Gly Val Cys Cys Gly Tyr Lys Leu Cys His Pro Cys

109 1 5 10

112 &lt;210&gt; SEQ ID NO: 4

113 &lt;211&gt; LENGTH: 13

114 &lt;212&gt; TYPE: PRT

115 &lt;213&gt; ORGANISM: Artificial Sequence

117 &lt;220&gt; FEATURE:

118 &lt;223&gt; OTHER INFORMATION: synthetic

120 &lt;220&gt; FEATURE:

121 &lt;221&gt; NAME/KEY: misc\_feature

122 &lt;222&gt; LOCATION: (1)..(1)

123 &lt;223&gt; OTHER INFORMATION: X is pyroglutamic acid

126 &lt;220&gt; FEATURE:

127 &lt;221&gt; NAME/KEY: misc\_feature

128 &lt;222&gt; LOCATION: (12)..(12)

129 &lt;223&gt; OTHER INFORMATION: X is 4-hydroxyproline

132 &lt;220&gt; FEATURE:

133 &lt;221&gt; NAME/KEY: MOD\_RES

134 &lt;222&gt; LOCATION: (13)..(13)

135 &lt;223&gt; OTHER INFORMATION: AMIDATION

138 &lt;220&gt; FEATURE:

139 &lt;221&gt; NAME/KEY: DISULFID

## RAW SEQUENCE LISTING

DATE: 02/15/2006

PATENT APPLICATION: US/10/537,704

TIME: 10:13:23

Input Set : A:\16095.seq list.txt

Output Set: N:\CRF4\02152006\J537704.raw

```

140 <222> LOCATION: (4)..(13)
141 <223> OTHER INFORMATION:
144 <220> FEATURE:
145 <221> NAME/KEY: DISULFID
146 <222> LOCATION: (5)..(10)
147 <223> OTHER INFORMATION:
W--> 150 <400> 4
W--> 152 Xaa Gly Val Cys Cys Gly Tyr Lys Leu Cys His Xaa Cys
153 1 5 10
156 <210> SEQ ID NO: 5
157 <211> LENGTH: 13
158 <212> TYPE: PRT
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: synthetic
164 <220> FEATURE:
165 <221> NAME/KEY: misc_feature
166 <222> LOCATION: (1)..(1)
167 <223> OTHER INFORMATION: X is pyroglutamic acid
170 <220> FEATURE:
171 <221> NAME/KEY: misc_feature
172 <222> LOCATION: (12)..(12)
173 <223> OTHER INFORMATION: X is 4-hydroxyproline
176 <220> FEATURE:
177 <221> NAME/KEY: misc_feature
178 <222> LOCATION: (13)..(13)
179 <223> OTHER INFORMATION: X is D-cysteine
182 <220> FEATURE:
183 <221> NAME/KEY: MOD_RES
184 <222> LOCATION: (13)..(13)
185 <223> OTHER INFORMATION: AMIDATION
188 <220> FEATURE:
189 <221> NAME/KEY: DISULFID
190 <222> LOCATION: (5)..(10)
191 <223> OTHER INFORMATION:
W--> 194 <400> 5
W--> 196 Xaa Gly Val Cys Cys Gly Tyr Lys Leu Cys His Xaa Xaa
197 1 5 10
200 <210> SEQ ID NO: 6
201 <211> LENGTH: 13
202 <212> TYPE: PRT
203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: synthetic
208 <220> FEATURE:
209 <221> NAME/KEY: misc_feature
210 <222> LOCATION: (1)..(1)
211 <223> OTHER INFORMATION: X is pyroglutamic acid
214 <220> FEATURE:

```

## RAW SEQUENCE LISTING

DATE: 02/15/2006

PATENT APPLICATION: US/10/537,704

TIME: 10:13:23

Input Set : A:\16095.seq list.txt

Output Set: N:\CRF4\02152006\J537704.raw

215 <221> NAME/KEY: misc\_feature  
 216 <222> LOCATION: (7)..(7)  
 217 <223> OTHER INFORMATION: X is 4-methoxytyrosine  
 220 <220> FEATURE:  
 221 <221> NAME/KEY: misc\_feature  
 222 <222> LOCATION: (12)..(12)  
 223 <223> OTHER INFORMATION: X is 4-hydroxyproline  
 226 <220> FEATURE:  
 227 <221> NAME/KEY: DISULFID  
 228 <222> LOCATION: (4)..(13)  
 229 <223> OTHER INFORMATION:  
 232 <220> FEATURE:  
 233 <221> NAME/KEY: DISULFID  
 234 <222> LOCATION: (5)..(10)  
 235 <223> OTHER INFORMATION:  
 W--> 238 <220>  
 239 <221> NAME/KEY: MOD\_RES  
 240 <222> LOCATION: (13)..(13)  
 241 <223> OTHER INFORMATION: AMIDATION  
 W--> 244 <400> 6  
 W--> 246 Xaa Gly Val Cys Cys Gly Xaa Lys Leu Cys His Xaa Cys  
 247 1 5 10  
 250 <210> SEQ ID NO: 7  
 251 <211> LENGTH: 14  
 252 <212> TYPE: PRT  
 253 <213> ORGANISM: Artificial Sequence  
 255 <220> FEATURE:  
 256 <223> OTHER INFORMATION: synthetic  
 258 <220> FEATURE:  
 259 <221> NAME/KEY: misc\_feature  
 260 <222> LOCATION: (1)..(1)  
 261 <223> OTHER INFORMATION: X is pyroglutamic acid  
 264 <220> FEATURE:  
 265 <221> NAME/KEY: misc\_feature  
 266 <222> LOCATION: (8)..(8)  
 267 <223> OTHER INFORMATION: X is 4-methoxytyrosine  
 270 <220> FEATURE:  
 271 <221> NAME/KEY: misc\_feature  
 272 <222> LOCATION: (13)..(13)  
 273 <223> OTHER INFORMATION: X is 4-hydroxyproline  
 276 <220> FEATURE:  
 277 <221> NAME/KEY: MOD\_RES  
 278 <222> LOCATION: (13)..(13)  
 279 <223> OTHER INFORMATION: AMIDATION  
 282 <220> FEATURE:  
 283 <221> NAME/KEY: DISULFID  
 284 <222> LOCATION: (5)..(14)  
 285 <223> OTHER INFORMATION:  
 288 <220> FEATURE:

## RAW SEQUENCE LISTING

DATE: 02/15/2006

PATENT APPLICATION: US/10/537,704

TIME: 10:13:23

Input Set : A:\16095.seq list.txt

Output Set: N:\CRF4\02152006\J537704.raw

```

289 <221> NAME/KEY: DISULFID
290 <222> LOCATION: (6)..(11)
291 <223> OTHER INFORMATION:
W--> 294 <400> 7
W--> 296 Xaa Asn Gly Val Cys Cys Gly Xaa Lys Leu Cys His Xaa Cys
297 1 5 10
300 <210> SEQ ID NO: 8
301 <211> LENGTH: 14
302 <212> TYPE: PRT
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: synthetic
308 <220> FEATURE:
309 <221> NAME/KEY: misc_feature
310 <222> LOCATION: (1)..(1)
311 <223> OTHER INFORMATION: X is pyroglutamic acid
314 <220> FEATURE:
315 <221> NAME/KEY: misc_feature
316 <222> LOCATION: (13)..(13)
317 <223> OTHER INFORMATION: X is 4-hydroxyproline
320 <220> FEATURE:
321 <221> NAME/KEY: MOD_RES
322 <222> LOCATION: (13)..(13)
323 <223> OTHER INFORMATION: AMIDATION
326 <220> FEATURE:
327 <221> NAME/KEY: DISULFID
328 <222> LOCATION: (5)..(14)
329 <223> OTHER INFORMATION:
332 <220> FEATURE:
333 <221> NAME/KEY: DISULFID
334 <222> LOCATION: (6)..(11)
335 <223> OTHER INFORMATION:
W--> 338 <400> 8
W--> 340 Xaa Asn Gly Val Cys Cys Gly Tyr Lys Leu Cys His Xaa Cys
341 1 5 10
344 <210> SEQ ID NO: 9
345 <211> LENGTH: 13
346 <212> TYPE: PRT
347 <213> ORGANISM: Artificial Sequence
349 <220> FEATURE:
350 <223> OTHER INFORMATION: synthetic
352 <220> FEATURE:
353 <221> NAME/KEY: misc_feature
354 <222> LOCATION: (1)..(1)
355 <223> OTHER INFORMATION: X is pyroglutamic acid
358 <220> FEATURE:
359 <221> NAME/KEY: misc_feature
360 <222> LOCATION: (12)..(12)
361 <223> OTHER INFORMATION: X is 4-hydroxyproline

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/537,704

DATE: 02/15/2006  
TIME: 10:13:24

Input Set : A:\16095.seq list.txt  
Output Set: N:\CRF4\02152006\J537704.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 12  
Seq#:2; Xaa Pos. 12  
Seq#:3; Xaa Pos. 1, 2  
Seq#:4; Xaa Pos. 1, 12  
Seq#:5; Xaa Pos. 1, 12, 13  
Seq#:6; Xaa Pos. 1, 7, 12  
Seq#:7; Xaa Pos. 1, 8, 13  
Seq#:8; Xaa Pos. 1, 13  
Seq#:9; Xaa Pos. 1, 12  
Seq#:10; Xaa Pos. 1, 12  
Seq#:11; Xaa Pos. 1, 12  
Seq#:12; Xaa Pos. 1, 11, 12

## VERIFICATION SUMMARY

DATE: 02/15/2006

PATENT APPLICATION: US/10/537,704

TIME: 10:13:24

Input Set : A:\16095.seq list.txt

Output Set: N:\CRF4\02152006\J537704.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:39 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:30  
L:39 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:36  
L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:68 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:59  
L:68 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:65  
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:106 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:97  
L:106 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:103  
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:150 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:4,Line#:141  
L:150 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:4,Line#:147  
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:194 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:191  
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:238 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:6,Line#:229  
L:244 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:6,Line#:235  
L:246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:294 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7,Line#:285  
L:294 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7,Line#:291  
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:338 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:8,Line#:329  
L:338 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:8,Line#:335  
L:340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:376 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:9,Line#:367  
L:376 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:9,Line#:373  
L:378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:414 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:10,Line#:405  
L:414 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:10,Line#:411  
L:416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:458 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:449  
L:458 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:455  
L:460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:508 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:12,Line#:499  
L:508 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:12,Line#:505  
L:510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0